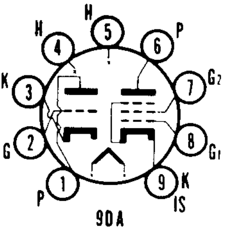


SYLVANIA TYPE 6AN8 6AN8A 5AN8

TRIODE PENTODE



MECHANICAL DATA

Bulb	T-6 ½, Outline 6-2
Base	Small Button 9-Pin
Basing	9DA
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS	5AN8	6AN8A	6AN8	
Heater Voltage	4.7	6.3	6.3	Volts
Heater Current	600	450	450	Ma
Heater Warm-up Time	11	11		Seconds
Maximum Heater-Cathode Voltage				
Total D C and Peak			200	Volts
D C, Heater Postive with Respect to Cathode			100	Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Triode Section		
Grid to Plate	1.5 μμf	
Input	2.0 μμf	
Output	0.26 μμf	
Pentode Section		
Grid No. 1 to Plate	0.04 μμf	Max
Input	7.0 μμf	
Output	2.4 μμf	
Triode Grid to Pentode Plate	.02 μμf	
Pentode Grid No. 1 to Triode Plate	.02 μμf	
Pentode Plate to Triode Plate	0.15 μμf	

MAXIMUM RATINGS (Design Maximum Values)

	Triode	Pentode
Plate Voltage	330	330 Volts
Grid No. 2 Supply Voltage		330 Volts
Grid No. 2 Voltage	See Rating Chart for Type 6AM8	
Positive Grid No. 1 Voltage	0	0 Volts
Plate Dissipation	2.8	2.3 Watts
Grid No. 2 Input		0.55 Watt
Grid No. 1 Circuit Resistance[1]		
Cathode Bias	1.0	1.0 Megohm
Fixed Bias	0.5	0.25 Megohm

CHARACTERISTICS

	Triode	Pentode
Plate Supply Voltage	150	125 Volts
Grid No. 2 Supply Voltage		125 Volts
Grid No. 1 Voltage	−3	Volts
Cathode Bias Resistor		56 Ohms
Plate Current	15	12 Ma
Grid No. 2 Current		3.8 Ma
Amplification Factor	21	
Plate Resistance (approx.)	4700	170,000 Ohms
Transconductance	4500	7800 μmhos
Grid No. 1 Voltage for I_b = 20 μa (approx.)	−17	−6 Volts
I_b at ECl = −3 Volts, RK = 0		1.6 Ma

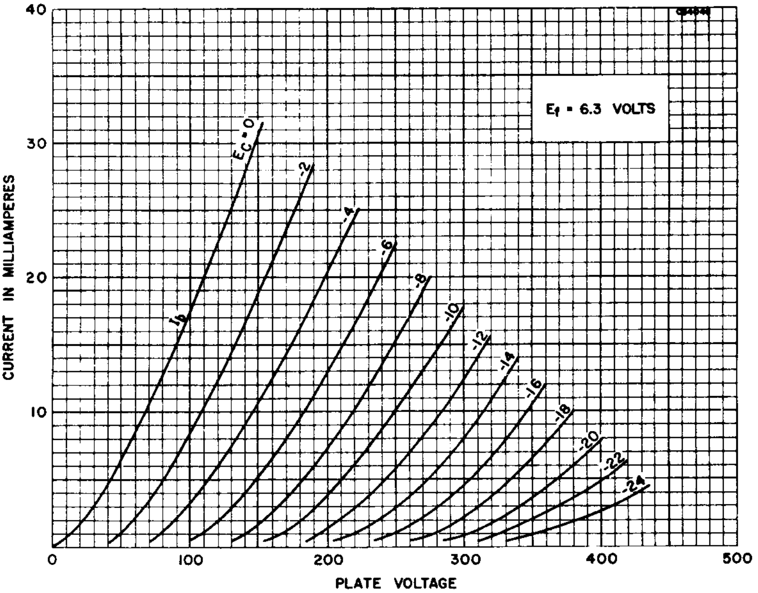
NOTE:

1. If either section is operating at maximum rated conditions, the grid No. 1 circuit resistance for both sections should not exceed the stated values.

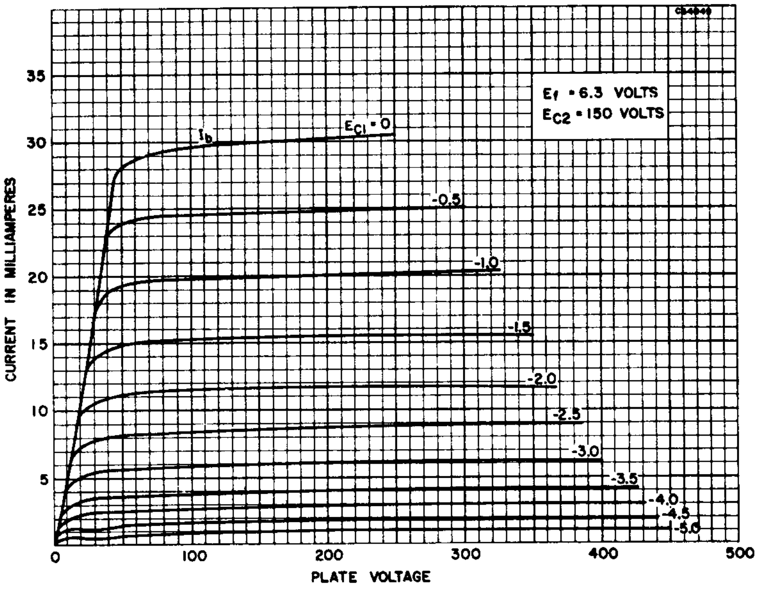
APPLICATION

Sylvania Types 6AN8, 6AN8A and 5AN8 are medium-mu triodes and sharp cutoff pentodes contained in a 9-pin, miniature envelope. The pentode section may be used as an i f amplifier, video amplifier, a g c amplifier and reactance tube. The triode is well suited for use in low frequency oscillator, sync clipper, sync separator and phase splitter circuits.

AVERAGE PLATE CHARACTERISTICS
TRIODE SECTION

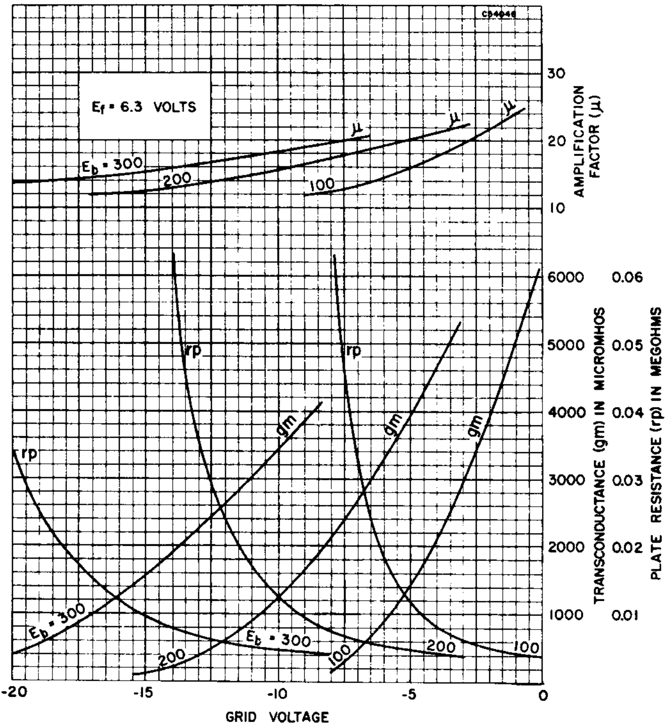


AVERAGE PLATE CHARACTERISTICS
PENTODE SECTION



6AN8, 6AN8A, 5AN8 (Cont'd)

AVERAGE TRANSFER CHARACTERISTICS
TRIODE SECTION



AVERAGE TRANSFER CHARACTERISTICS
PENTODE SECTION

